

Amendment to the Claims:

In compliance with the Revised Amendment Format, a complete listing of claims is provided herein.

1. (Previously Presented) A method of managing execution of requests of a computing environment, said method comprising:
  - obtaining by a processor of the computing environment a request to be processed;
  - starting a virtual machine on the processor to process the request, said virtual machine being exclusive to the request; and
  - processing the request by the virtual machine.
2. (Previously Presented) The method of claim 1, wherein the starting is managed at least in part by another virtual machine of the processor.
3. (Previously Presented) The method of claim 1, wherein said obtaining comprises receiving the request by another virtual machine of the processor, and wherein the starting comprises starting the virtual machine by the another virtual machine.
4. (Original) The method of claim 3, wherein the receiving the request comprises receiving the request from a job management service coupled to the another virtual machine.
5. (Original) The method of claim 1, wherein the starting comprises providing one or more resources to the virtual machine to process the request.
6. (Original) The method of claim 1, further comprising shutting down the virtual machine, in response to completing the request.
7. (Original) The method of claim 6, wherein the shutting down comprises returning one or more resources provided to the virtual machine.

8. (Previously Presented) The method of claim 6, wherein said shutting down is managed at least in part by another virtual machine of the processor.

9. (Original) The method of claim 8, wherein said shutting down comprises using by the another virtual machine a communications service to shut down the virtual machine.

10. (Previously Presented) The method of claim 1, wherein said obtaining comprises obtaining by another virtual machine of the processor the request to be processed, and wherein the starting comprises:

providing by the another virtual machine to a communications service coupled to said another virtual machine and said virtual machine a start indication indicating that the virtual machine is to be started; and

using the communications service to start the virtual machine.

11. (Previously Presented) The method of claim 1, further comprising:

determining which processor of a plurality of processors is available to process the request; and

sending the request to the processor determined to be available.

12. (Previously Presented) The method of claim 11, wherein said determining comprises obtaining from one or more other virtual machines of one or more processors of the plurality of processors information to be used in the determining.

13. (Previously Presented) The method of claim 11, wherein said plurality of processors include at least one processor that is heterogeneous to another processor.

14. (Previously Presented) The method of claim 13, wherein the one processor is of at least one of a different family and different generation than the another processor.

15. (Previously Canceled)

16. (Previously Amended) The method of claim 1, further comprising providing from said virtual machine to a job management service information regarding the request being processed.

17. (Canceled)

18. (Currently Amended) A method of managing initiation of virtual machines of a computing environment, said method comprising:

determining by one virtual machine on a processor of a computing environment that another virtual machine is to be initiated, wherein the determining is in response to receiving by ~~the one virtual machine~~ a processor of the computing environment a request to be processed, and wherein the another virtual machine is exclusive to the request;

initiating, by the one virtual machine, the another virtual machine; and

processing the request by the another virtual machine.

19. (Previously Canceled)

20. (Previously Amended) The method of claim 1, wherein the request is for utilization of machine resources.

21. (Original) The method of claim 18, wherein said initiating comprises using by the one virtual machine a communications service in initiating the another virtual machine.

22. (Currently Amended) A method of providing an on-demand infrastructure, said method comprising:

deploying logic on at least one processor of a computing environment to automatically provide a virtual machine on-demand in response to a request received by at least one of the at least one processor, the virtual machine exclusive to the request, and to process the request by the virtual machine.

23-50. (Canceled)